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OPD - 1990-09-21
TI - GRAFT POLYMERIZATION AND DEVICE THEREFOR
IN - ONISHI MASATO; SHIMURA KENICHI
PA - TERUMO CORP
IC - B01J14/00 ; C08F285/00

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TI - Apparatus for graft polymerisation - includes vacuum tank contg. polymerisation chamber into which 2 or more gases are supplied to transported film
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PA - (TERU) TERUMO CORP
IC - B01J14/00 ;C08F285/00
AB - J04132713 The graft polymerisation method includes supplying two or more types of single units to a material such as porous membrane film for graft polymerisation under a vacuum. Unreacted single units are then removed under reduced pressure, and other single units are supplied to the film for graft polymerisation under a vacuum after the unreacted single units are removed.
- The graft polymerisation appts. includes: a vacuum tank having a graft polymerisation chamber, 4 air exhausting ports for exhausting the polymerisation chamber, 2 single unit gas supply ports for separately supplying two or more types of gases to the polymerisation chamber, and a film transporting mechanism for reciprocating the film within the graft polymerisation chamber.
- ADVANTAGE - Continual but separate graft polymerisation of two or more types of single units will provide compound functions having a number of graft chains. The vacuum process provides stabilised graft chains(Dwg. 0/2)
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TI - GRAFT POLYMERIZATION AND DEVICE THEREFOR
AB - PURPOSE:To obtain the title polymer useful for immobilizing substrate of physiologically active substance by subjecting a monomer to graft polymerization onto a substrate to be treated, in a vacuum atmosphere, removing the unreacted monomer and grafting another monomer onto to the substrate to uniformly form graft chains on the surface.
- CONSTITUTION:A substrate 25 (e.g. porous film made of polypropylene) to be treated is held between bobbins 33 and 36, fixed in a main body 11 of a vacuum tank, the main body 11 of a vacuum tank is evacuated while winding the substrate film 25, an argon gas is introduced from a plasma gas inlet 22 to the main body, the substrate is irradiated with plasma, the argon gas is removed under reduced pressure, a first monomer (e.g. methoxyethyl acrylate) is fed from a monomer inlet 23, graft polymerization is carried out in a vacuum atmosphere, the unreacted monomer is removed, a second monomer (e.g. 4- vinylpyridine) is sent and subjected to graft polymerization in a vacuum atmosphere so that plural kinds of the monomers are subjected to graft polymerization on the substrate 25 to give the objective polymer.